

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/007692

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/00, C12Q1/68, A01K67/027

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/00, C12Q1/68, A01K67/027

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE, BIOSIS/WPI (DIALOG), SwissProt/PIR/GeneSeq, Genbank/EMBL/DBJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<u>X</u> A	JP 2000-300263 A (Helix Research Institute), 31 October, 2000 (31.10.00), Full text (Family: none)	<u>1-4</u> 5-8
<u>X</u> A	WO 99/15653 A1 (GENENTECH, INC.), 01 April, 1999 (01.04.99), Full text & EP 10155585 A2 & JP 2001-517437 A	<u>1-4</u> 5-8
A	OIKE Y. et al., Angiopoietin-related growth factor (AGF) promotes epidermal proliferation, remodeling, and regeneration, Proc.Natl.Acad.Sci. USA, 2003, Vol.100, pages 9494 to 9499	1-8

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
30 August, 2004 (30.08.04)

Date of mailing of the international search report  
14 September, 2004 (14.09.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

# INTERNATIONAL SEARCH REPORT

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PCT/JP2004/007692

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The group of inventions claimed in claims 1-6 (invention group A) relates to a promoter of angiopoietin-related growth factor. The invention claimed in claim 7 (invention B) relates to a nonhuman knockout animal in which the angiopoietin-related growth factor has been deleted. The invention claimed in claim 8 (invention C) relates to a nonhuman transgenic mouse animal capable of expressing the angiopoietin-related growth factor.

With respect to invention group A and invention B

It is apparent that among the invention group A and invention B, there is no technical relationship involving one or more of the same or corresponding (continued to extra sheet)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/007692

Continuation of Box No.III of continuation of first sheet (2)

special technical features.

•With respect to invention group A and invention C

It is apparent that among the invention group A and invention C, there is no technical relationship involving one or more of the same or corresponding special technical features.

•With respect to invention B and invention C

The invention B is common to the invention C in being the invention related to "angiopoietin-related growth factor specified in this application". However, since the angiopoietin-related growth factor specified in this application was publicly known before the priority date of this application (if necessary, see JP 2000-300263 A, WO 99/15653 A1, etc.), it does not appear that among the invention B and invention C, there is a technical relationship involving one or more of the same or corresponding special technical features.

Therefore, the inventions of claims 1-8 do not satisfy the requirement of unity of invention.

With respect to the inventions of claims 1-6, it appears that the requirement of unity of invention is satisfied.